

display signal superimposed on a conventional television signal on the television set;

a remote keyboard device, wirelessly coupled to the at least a first communication unit, for permitting a system user to control display of the at least one display signal on the television set and enter data corresponding to the display of the at least one display signal;

a satellite network, operatively coupled to the at least a first communication unit, for wirelessly transferring signals including the at least one information signal;

at least a second communication unit, operatively coupled to the satellite network, for receiving the at least one information signal; and

a server, operatively coupled to the at least a second communication unit, for processing the at least one information signal and providing data included in the information signal to a network;

wherein the server retrieves return data from the network and provides the return data to the at least a second communication unit, the at least a second communication unit generating at least one return information signal and providing the at least one return information signal to the satellite network, the satellite network wirelessly transferring the at least one return information signal to the at least a first communication unit, which generates and displays the at least one display signal superimposed on a conventional television signal on the television set.

*B3
compl.
C7
compl.*

REMARKS

Claims 1-44 are pending in this application. Claims 1-44 have been rejected. Claim 1, 32, and 36 have been amended and a marked-up version illustrating the claim amendments is annexed hereto. The Examiner's reconsideration of the claim rejections is

respectfully requested in view of the amendment and following remarks.

Claim Rejections Under 35 U.S.C. § 102(e)

Claims 1-5, 8-11, 32-33 and 36-39 were rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 5,999,970 to Krisbergh et al. ("Krisbergh") for the reasons set forth on pages 2-10 of the Office Action.

Examiner acknowledges that Krisbergh receives a television program along with sequential portions of the "received information" inserted in the VBI . . . generates a television program display or extracts a "received information" from VBI, and then the terminal 54 displays the received TV programming or the received information on the television 56 (col. 4, lines 36-65). The terminal (communications unit) in Krisbergh displays either TV programming or received information.

Claims 1, 32, and 36 have been amended to include the feature of "a first communication unit, . . . , having a central processing unit, a mass storage device, and a signal combiner, . . . for generating and displaying at least one display signal superimposed on a conventional television signal on the television set." Krisbergh clearly does not teach or suggest the feature of displaying a display signal superimposed on a conventional television signal on a television set. While the terminal in Krisbergh can display either TV programming or received information on a television, the terminal does not superimpose the received information with the TV programming and display the resulting combination on a television.

By displaying the display signal with a conventional television signal on a television, as in Applicants' inventions of claims 1, 32, and 36, it is possible to interact

with a functional network, for example, retrieve stock quotes from the internet, while simultaneously viewing a television program.

Therefore, since Krisbergh does not teach or suggest the features of "a first communication unit, . . . , having a central processing unit, a mass storage device, and a signal combiner, . . . for generating and displaying at least one display signal superimposed on a conventional television signal on the television set", as claimed in claims 1, 32, and 36, Krisbergh is legally deficient to support a rejection under 35 U.S.C. § 102. Thus, claims 1, 32, and 36 are believed to be patentable over Krisbergh.

Claims 1-5 and 8-11 depend from claim 1, and thus include all the limitations of claim 1, claim 33 depends from claim 32, and thus include all the limitations of claim 32, and claims 37-39 depend from claim 36, and thus include all the limitations of claim 36. The dependent claims are believed to be patentable for at least the reasons given for claims 1, 32, and 36, which are believed to be patentable. Reconsideration of the claim rejections under 35 U.S.C. § 102 is respectfully requested.

Claim Rejections Under 35 U.S.C. § 103(a)

Claims 6, 7, 12-31, 34, 35, 40-44 were rejected under 35 U.S.C. § 103(a) as being unpatentable over cited references U. S. Patent 5,999,970 to Krisbergh et al. ("Krisbergh"), U.S. Patent 6,141,356 to Gorman ("Gorman"), U.S. Patent 5,561,703 to Arledge et al. ("Arledge"), U.S. Patent 5,991,596 to Cunningham et al. ("Cunningham"), U.S. Patent 6,320,941 Tyroler ("Tyroler"), U.S. Patent 6,263,501 to Schein et al. ("Schein"), and U.S. Patent 5,812,931 to Yuen et al. ("Yuen") for the reasons set forth on pages 10-18 of the Office Action.

The rejection of claims 6, 7, 12-31, 34, 35, 40-44, is based in part on Krisbergh disclosing all of the features of independent claims 1, 32, and 36. As was pointed out above, Examiner acknowledges that Krisbergh displays either the received TV programming or the received information on the television 56 (col. 4, lines 36-65). Therefore, Krisbergh does not teach or suggest "displaying at least one display signal superimposed on a conventional television signal on the television set", as claimed in claims 1, 32, and 36.

Furthermore, all of the cited combinations of references of Krisbergh, Gorman, Arledge, Cunningham, Tyroler, Schein, and Yuen, do not teach or suggest "displaying at least one display signal superimposed on a conventional television signal on the television set", as claimed in claims 1, 32, and 36.

Therefore, the cited combinations of references are legally deficient to sustain a rejection under 35 U.S.C. § 103, since all of the combinations of references do not teach or suggest "displaying at least one display signal superimposed on a conventional television signal on the television set", as claimed in claims 1, 32, and 36.

Additionally, since claims 6, 7, and 12-31 depend from claim 1, claims 34-35 depend from claim 32, and claims 40-44 depend from claim 36 these claims are believed to be non-obvious and patentable over the cited references at least for the reasons given above for respective base claims 1, 32, and 36. Thus, withdrawal of the claim rejections under 35 U.S.C. § 103 is respectfully requested.

Early and favorable consideration of this application is requested.

Respectfully submitted,

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Marked-Up Version Illustrating Claim Amendments

Please amend the claims as follows:

1. (Amended) A wireless information signal transfer and interactive television system comprises:

at least a first communication unit, operatively coupled to a television set, having a central processing unit, a mass storage device, and a signal combiner, for generating at least one information signal and for generating and displaying at least one display signal [for display] superimposed on a conventional television signal on the television set;

a wireless signal transfer network, operatively coupled to the at least a first communication unit, for wirelessly transferring signals including the at least one information signal;

at least a second communication unit operatively coupled to the wireless transfer network, for receiving the at least one information signal; and

a server, operatively coupled to the at least a second communication unit, for processing the at least one information signal and providing data included in the information signal to a functional network.

32. (Amended) A wireless information signal transfer and interactive television system comprises:

at least a first communication unit, operatively coupled to a television set, having a central processing unit, a mass storage device, and a signal combiner, for generating at least one information signal and for generating and displaying at least one display signal [for display] superimposed on a conventional television signal on the television set;

remote data entry and control means, wirelessly coupled to the at least a first communication unit, for permitting a system user to control display of the at least one display signal on the television set and enter data corresponding to the display of the at least one display signal;

a wireless signal transfer network, operatively coupled to the at least a first communication unit, for wirelessly transferring signals including the at least one information signal;

at least a second communication unit, operatively coupled to the wireless transfer network, for receiving the at least one information signal; and

a server, operatively coupled to the at least a second communication unit, for processing the at least one information signal and providing data included in the information signal to a network;

wherein the server retrieves return data from the network and provides the return data to the at least a second communication unit, the at least a second communication unit generating at least one return information signal and providing the at least one return information signal to the wireless signal transfer network, the wireless signal transfer network wirelessly transferring the at least one return information signal to the at least a first communication unit, which generates and displays the at least one display signal [for display] superimposed on a conventional television signal on the television set.

36. (Amended) A wireless information signal transfer and interactive television system comprises:

at least a first communication unit, operatively coupled to a television set, for

generating at least one information signal and for generating and displaying at least one display signal [for display] superimposed on a conventional television signal on the television set;

a remote keyboard device, wirelessly coupled to the at least a first communication unit, for permitting a system user to control display of the at least one display signal on the television set and enter data corresponding to the display of the at least one display signal;

a satellite network, operatively coupled to the at least a first communication unit, for wirelessly transferring signals including the at least one information signal;

at least a second communication unit, operatively coupled to the satellite network, for receiving the at least one information signal; and

a server, operatively coupled to the at least a second communication unit, for processing the at least one information signal and providing data included in the information signal to a network;

wherein the server retrieves return data from the network and provides the return data to the at least a second communication unit, the at least a second communication unit generating at least one return information signal and providing the at least one return information signal to the satellite network, the satellite network wirelessly transferring the at least one return information signal to the at least a first communication unit, which generates and displays the at least one display signal [for display] superimposed on a conventional television signal on the television set.